

--17. A spring as recited by claim 16, wherein the circular cross-section has a diameter of at least 0.05 mm.--

--18. A spring as recited by claim 14, wherein said spring has a rectangular cross-section.--

--19. A spring as recited by claim 18, wherein the rectangular cross-section has a thickness of at least 0.01 mm and a width of at least 0.05 mm.--

--20. A spring as recited by claim 14, wherein said spring is constructed from a non-magnetic material.--

--21. A spring as recited by claim 14, further comprising a plurality of amorphous metal strips laminated together.--

--22. A spring as recited by claim 21, wherein said plurality of amorphous metal strips are laminated together with a synthetic resin adhesive.--

--23. A mainspring, said mainspring being formed from an amorphous material.--

--24. A mainspring as recited by claim 23, wherein said mainspring is incorporated in a substrate, said spring defining a flexure.--

--25. A mainspring as recited by claim 23, wherein said mainspring has a circular cross-section.--

Cont
A2

Sub
B3

--26. A mainspring as recited by claim 25, wherein the circular cross-section has a diameter of at least 0.05 mm.--

--27. A mainspring as recited by claim 23, wherein said mainspring has a rectangular cross-section.--

--28. A mainspring as recited by claim 27, wherein the rectangular cross-section has a thickness of at least 0.01 mm and a width of at least 0.05 mm.--

--29. A mainspring as recited by claim 23, wherein said mainspring is constructed from a non-magnetic material.--

--30. A mainspring as recited by claim 23, further comprising a plurality of amorphous metal strips laminated together.--

--31. A mainspring as recited by claim 30, wherein said plurality of amorphous metal strips are laminated together with a synthetic resin adhesive.--

--32. A mainspring as recited by claim 23, wherein said mainspring defines a free-exploded S-shape.--

--33. A mainspring as recited by claim 31, wherein said mainspring includes an inner end which serves as a winding side for said mainspring, and an outer end, wherein said free-exploded S-shape has a curvature changing point where the curvature of the free-exploded shape changes, said curvature changing point being located at a point closer to said inner end than to a point midway between said inner end and said outer end.--

con't
A2

663240-6826260

Sub
B4

--34. A hairspring, said hairspring being made from an amorphous metal.--

--35. A hairspring as recited by claim 34, wherein said hairspring is incorporated in a substrate, said hairspring defining a flexure.--

Cont
A2

--36. A hairspring as recited by claim 34, wherein said hairspring has a circular cross-section.--

--37. A hairspring as recited by claim 36, wherein the circular cross-section has a diameter of at least 0.05 mm.--

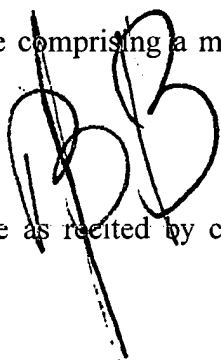
--38. A hairspring as recited by claim 34, wherein said hairspring has a rectangular cross-section.--

--39. A hairspring as recited by claim 38, wherein the rectangular cross-section has a thickness of at least 0.01 mm and a width of at least 0.05 mm.--

--40. A hairspring as recited by claim 34, wherein said hairspring is constructed from a non-magnetic material.--

--41. A timepiece comprising a mainspring, said main spring being formed from an amorphous metal.--

--42. A timepiece as recited by claim 41, wherein said mainspring defines a free-exploded S-shape.--



62240" 62240" 62240"

--43. A timepiece as recited in claim 42, wherein said mainspring includes an inner end which serves as a winding side for said mainspring, and an outer end, wherein said free-exploded S-shape has a curvature changing point where the curvature of the free-exploded shape changes, said curvature changing point being located at a point closer to said inner end than to a point midway between said inner end and said outer end.--

--44. A timepiece comprising a hairspring, said hairspring being formed of amorphous metal.--

--45. A timepiece as recited by claim 44, wherein said hairspring defines a free-exploded S-shape.--

--46. A timepiece as recited in claim 44, wherein said hairspring includes an inner end which serves as a winding side for said hairspring, and an outer end, wherein said free-exploded S-shape has a curvature changing point where the curvature of the free-exploded shape changes, said curvature changing point being located at a point closer to said inner end than to a point midway between said inner end and said outer end.--

--47. A drive mechanism comprising:
two amorphous metal mainsprings;
a plurality of barrel drums housing said two amorphous metal mainsprings; and
a train wheel, said plurality of barrel drums simultaneously engaging said train wheel, for transmitting mechanical energy from said two mainsprings.--

Cont
A2

66240" 63246260

--48. A drive mechanism as recited in claim 47, wherein said plurality of barrel drums are phase shifted from each other when they engage said train wheel.--

--49. A time piece having a drive mechanism comprising:

two amorphous metal mainsprings;

a plurality of barrel drums housing said two amorphous metal mainsprings; and

a train wheel, said plurality of barrel drums simultaneously engaging said train wheel, for transmitting mechanical energy from said two mainsprings.--

--50. A time piece as recited in claim 48, wherein said plurality of barrel drums are phase shifted from each other when they engage said train wheel.—

Cont
A2

50270" 63246260